

HIGH TEMPERATURE SUPER-CONDUCTING ROTOR HAVING A
VACUUM VESSEL AND ELECTROMAGNETIC SHIELD AND AN
ASSEMBLY METHOD

ABSTRACT OF THE DISCLOSURE

A rotor is disclosed for a super-conducting synchronous machine comprising: a rotor core; a super-conducting coil extending around at least a portion of the rotor core, said coil having coil side sections on opposite sides of said rotor core; a vacuum housing covering at least one of said coil side sections, and a conductive shield over said vacuum housing and coil side sections.